

11 through said chamber, and as insects are metered into said
12 delivery tube they are gravity fed to the chamber to be
13 coated by binder solution entering the chamber through said
14 at least one fluid injector, and then the coated insects are
15 expelled through the outlet end of said chamber.

6 6. Amended. The apparatus of claim 1 wherein the
7 delivery tube comprises a J-shaped tube the outlet of which
8 is disposed elevationally at about the middle of the chamber
9 and which is directed toward the outlet of the chamber.

10 10. Amended. An apparatus for the coating and
11 delivery of beneficial insects which comprises:

12 a. a hopper for the temporary storage of the
13 beneficial insects and which hopper has a constricted
14 opening at the bottom in communication with,

15 b. an insect metering device for controlling the
16 flow of a determinable amount of insects from said hopper,

17 c. a collection bin to receive said insects, in
18 communication with said metering device,

19 d. a delivery tube having an inlet end and [an] a
20 flared outlet end, and

21 e. a tubular chamber having an outlet end and an
22 inlet end for the introduction of air into said chamber, and
23 having at least one fluid injector, disposed within said
24 chamber, for the introduction of a binder solution [from a
25 source thereof]; into an airstream, aft the outlet of said
26 delivery tube but within said chamber,

27 said collection bin in communication with the
28 inlet of the delivery tube; the outlet of the delivery tube
29 being disposed within the chamber and in communication with
30 the interior of said chamber,

31 whereby when air is introduced through the inlet end of
32 the chamber, an airstream is formed that moves through said
33 chamber, and as insects are metered into said delivery tube
34 they are gravity fed to the chamber to be coated by binder
35 solution entering the chamber through said at least one

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2 fluid injector, and then the coated insects are expelled
3 through the outlet end of said chamber.

4 22. Amended. An apparatus for the aerial delivery of
5 binder coated beneficial insects which comprises:

6 a. a hopper for the temporary storage of the
7 insects and which hopper has a constricted opening at the
8 bottom in communication with,

9 b. an insect metering device for [controlling the
10 flow] periodically dispensing a finite amount of insects
11 from said hopper,

12 c. a collection bin to receive said insects, in
13 communication with said metering device,

14 d. a J-shaped delivery tube having an inlet end
15 and [an] a flared outlet end,

16 e. an optical sensor encircling said delivery
17 tube, connected to a power source, and adapted to monitor
18 the flow though said delivery tube,

19 f. a tubular chamber having an outlet end and a
20 reverse venturi configured inlet end for the introduction of
21 injectors ~~injectors~~, oppositely disposed within said chamber, for the
22 introduction of a binder solution [from a source thereof],
23 into an airstream aft the outlet of said delivery tube but
24 within said chamber,

25 said collection bin in communication with the
26 inlet of the delivery tube; the outlet of the delivery tube
27 being disposed within the chamber and in communication with
28 the interior of said chamber,

29 whereby when air is introduced through the inlet
30 end of the chamber, an airstream is formed that moves
31 through said chamber, and as insects are metered into said
32 delivery tube they are [gravity] fed to the chamber to be
33 coated by binder solution entering the chamber through ~~said~~
34 ^{of said pair of} injectors at least one fluid injector and then the coated insects are
35 expelled through the outlet end of said chamber.

26. Amended. The process of controlling insect pests on an infested specific crop which comprises:

a. introducing a plurality of beneficial insects into a moving airstream within a chamber having an air inlet and an air outlet, parallel to the movement of the airstream,

- b. injecting a binder solution into the airstream,
- c. coating the moving beneficial insects with the binder solution, aft the entry thereof, but within said chamber.

d. expelling the coated insects from the airstream through the outlet of the chamber onto the specific crop.

27. Amended. The process of delivering beneficial insects to the foliage of infested target trees which comprises:

a. mounting at least one tubular chamber, each of which has an air inlet end and an air outlet end onto an airplane, with the air inlet of each chamber facing forward,

b. placing a finite amount of the beneficial insects into a hopper in communication with the chamber,

c. metering a determinable continuous supply of beneficial insects into the chamber from the hopper in a direction parallel to a flow of air through the chamber while flying over the target trees,

d. injecting a binder solution into the chamber during the time the beneficial insects are in the chamber,

e. coating the beneficial insects with the binder solution, within the chamber, aft the entry of the insects,

f. expelling the coated insects out the outlet of the chamber onto the target trees.

Please cancel claim 30.

REMARKS

Claims 1, 6, 10, 22, 26 and 27 have been amended to more clearly define the apparatus and process of this invention. Claim 30 has been canceled. The invention of